<u>1</u> of <u>11</u>

### UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO.

: 7,244,847 62

APPLICATION NO.: 10/071,978

ISSUE DATE

: 07/17/2007

INVENTOR(S)

Eric E. Swayze et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

1) Title Page:

and Column I, line 1

Item [54], Title, please insert --Novel-- before "Benzimidazole";

- 2) Item [56], References Cited, OTHER PUBLICATIONS, "Freter" reference, please delete "n-(4idolylpiperidinoalkyl)" and insert therefor -n-(4-indolylpiperidinoalkyl)--;
- 3) "Fonquerna" reference, please delete "Capluse" and insert therefor -- Caplus--;
- 4) "Agai" reference, please delete "1,3,5,-triazepines, III" and insert therefor -1,3,5,-triazepines. III.--;
- 5) Column 61, Claim 1, lines 14-18, please delete "

- 6) Column 61, Claim 1, line 22, please insert --alkyl, -- between "is" and "aryl,":
- 7) Column 61, Claim 1, line 25, please delete "-R<sub>9</sub>-X-R<sub>10</sub>-R<sub>11</sub>)H;" and insert therefor ---R<sub>9</sub>-X-R<sub>10</sub>-(R<sub>11</sub>)H;--;
- 8) Column 61, Claim 1, line 32, please delete ";" and insert therefor -,-;
- Column 61, Claim 1, line 49, please delete "heteroaryl," and insert therefor --heteroaryl or --;

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Isis Pharmaceuticals, Inc. 1896 Rutherford Rd.

Carlsbad, CA 92008

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USP10. If the will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer. U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

#### UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

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PATENT NO.

: 7,244,847

APPLICATION NO.: 10/071,978

ISSUE DATE

: 07/17/2007

INVENTOR(S)

Eric E. Swayze et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

- 10) Column 61, Claim 1, line 50; please delete "hereteroaryl" and insert therefor --heteroaryl--;
- 11) Column 61, Claim 1, line 52, please delete "," and insert therefor --;--;
- 12) Column 61, Claim 1, line 54, please delete ":" and insert therefor -,-;
- Column 61, Claim 1, line 58, please delete "," after "-C(=O)-NH-heteroarylcarbonyl";
- 14) Column 61, Claim 1, line 61, please delete "," after "cycloalkylaminocarbonyl";
- 15) Column 62, Claim 1, line 3, please delete "," after "alkylheteroaryl";
- 16) Column 62, Claim 1, line 12, please delete "," after both "heteroary!";
- 17) Column 62, Claim 1, line 26, please delete "," after "arylcarbonyl";
- 18) Column 62, Claim 1, line 26, please delete the second "and" and insert therefor --or--:
- 19) Column 62, Claim 1, lines 36-37, please delete ", or a group of Formula I at position R<sub>1</sub> thereof";
- 20) Column 62, Claim 1, line 39, please delete "group" and insert therefor -radical of a compound-;
- 21) Column 62, Claim 1, line 40, please delete "nitrogen atom is Q4" and insert therefor -- radical is R1-;

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Isis Pharmaceuticals, Inc. 1896 Rutherford Rd.

Carlsbad, CA 92008

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(Also Form PTO-1050)

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### UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

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PATENT NO.

: 7,244,847 32

APPLICATION NO.: 10/071,978

ISSUE DATE

: 07/17/2007

INVENTOR(S)

Eric E. Swayze et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

22) Column 63, Claim 10, lines 39-43, please delete \*

insert therefor

$$\bigcup_{N}$$

23) Column 63, Claim 10, lines 58-66, please delete "

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Isis Pharmaceuticals, Inc. 1896 Rutherford Rd. Carlsbad, CA 92008

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\_of <u>\_11</u>

and insert therefor

# UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Note

PATENT NO.

: 7,244,847 62

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APPLICATION NO.: 10/071,978

ISSUE DATE

: 07/17/2007

INVENTOR(S)

Eric E. Swayze et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

24) Column 64, Claim 10, lines 1-11, please delete

- 25) Column 64, Claim 12, line 15, please delete ",";
- 26) Column 64, Claim 15, line 24, please delete ",";
- 27) Column 64, Claim 16, line 36, please delete "selected from" and insert therefor --substituted with--;

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Isis Pharmaceuticals, Inc. 1896 Rutherford Rd. Carlsbad, CA 92008

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### UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

NOR

: 7,244,847 62 PATENT NO.

APPLICATION NO.: 10/071,978 ISSUE DATE

INVENTOR(S)

: 07/17/2007

Eric E. Swayze et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

28) Column 64, Claim 17, lines 45-55, please delete "

" and insert therefor

29) Column 65, Claim 17, lines 1-13, please delete "

insert therefor -

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Isis Pharmaceuticals, Inc. 1896 Rutherford Rd. Carlsbad, CA 92008

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# UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

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PATENT NO.

: 7,244,847 82

APPLICATION NO.: 10/071,978

40/074 070

ISSUE DATE

07/17/2007

INVENTOR(S)

Eric E. Swayze et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

30) Column 65, Claim 17, lines 25-66, please delete "

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Isis Pharmaceuticals, Inc. 1896 Rutherford Rd. Carlsbad, CA 92008

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#### UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO.

: 7,244,847 BZ

APPLICATION NO.: 10/071,978

ISSUE DATE

: 07/17/2007

INVENTOR(S)

Eric E. Swayze et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

and insert therefor -

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Isis Pharmaceuticals, Inc. 1896 Rutherford Rd. Carlsbad, CA 92008

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# UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Note

PATENT NO. :

: 7,244,847 62

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APPLICATION NO.: 10/071,978

ISSUE DATE

: 07/17/2007

INVENTOR(S)

Eric E. Swayze et al.

31) Column 66, Claim 17, lines 1-19, please delete "

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

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#### UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Note

PATENT NO.

: 7,244,847 BZ

APPLICATION NO .: 10/071,978

ISSUE DATE

: 07/17/2007

INVENTOR(S)

Eric E. Swayze et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

32) Column 66, Claim 18, lines 32-47, please delete "

and insert therefor -

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Isis Pharmaceuticals, Inc. 1896 Rutherford Rd. Carlsbad, CA 92008

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### UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 10 of 11

PATENT NO.

: 7,244,847 82

**APPLICATION NO.: 10/071,978** 

ISSUE DATE

: 07/17/2007

INVENTOR(S)

Eric E. Swayze et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

33) Column 66, Claim 18, lines 57-66, please delete

- 34) Column 67, Claim 20, line 17, please delete "Nsuccinimidyl" and insert therefor -- N-succinimidyl-:
- 35) Column 67, Claim 20, line 20, please delete ";" and insert therefor --,--;

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Isis Pharmaceuticals, Inc. 1896 Rutherford Rd. Carlsbad, CA 92008

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### UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 11 of 11

Nge

PATENT NO.

: 7,244,847 B2

APPLICATION NO.: 10/071,978

40/074 070

ISSUE DATE

07/17/2007

INVENTOR(S)

Eric E. Swayze et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

36) Column 67, Claim 21, lines 24-30, please delete "

$$\begin{array}{c|c}
R_{52} & N & NH_2 \\
- R_{53} & ())_{Z} & N(R_{15}^{1})(R_{16}^{1})
\end{array}$$

- 37) Column 68, Claim 21, lines 7-8, please delete "can form a succinimido or phthalimido" and insert therefor —form a N-succinimidyl, N-phthalimidyl, N-maleimidyl, N-napthalimidyl, N-pyromellitic diimidyl, N-benzopyrrolidinyl or N-benzimidazol-l-yl-;
- 38) Column 68, claim 21, line 8, please delete "or a fused ring derivative thereof,";
- 39) Column 68, 'Claim 21, lines 9-10, please delete "succinimido or phthalimido" and "or fused ring derivative thereof".

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Isis Pharmaceuticals, Inc. 1896 Rutherford Rd. Carlsbad, CA 92008

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